

FIG. 1

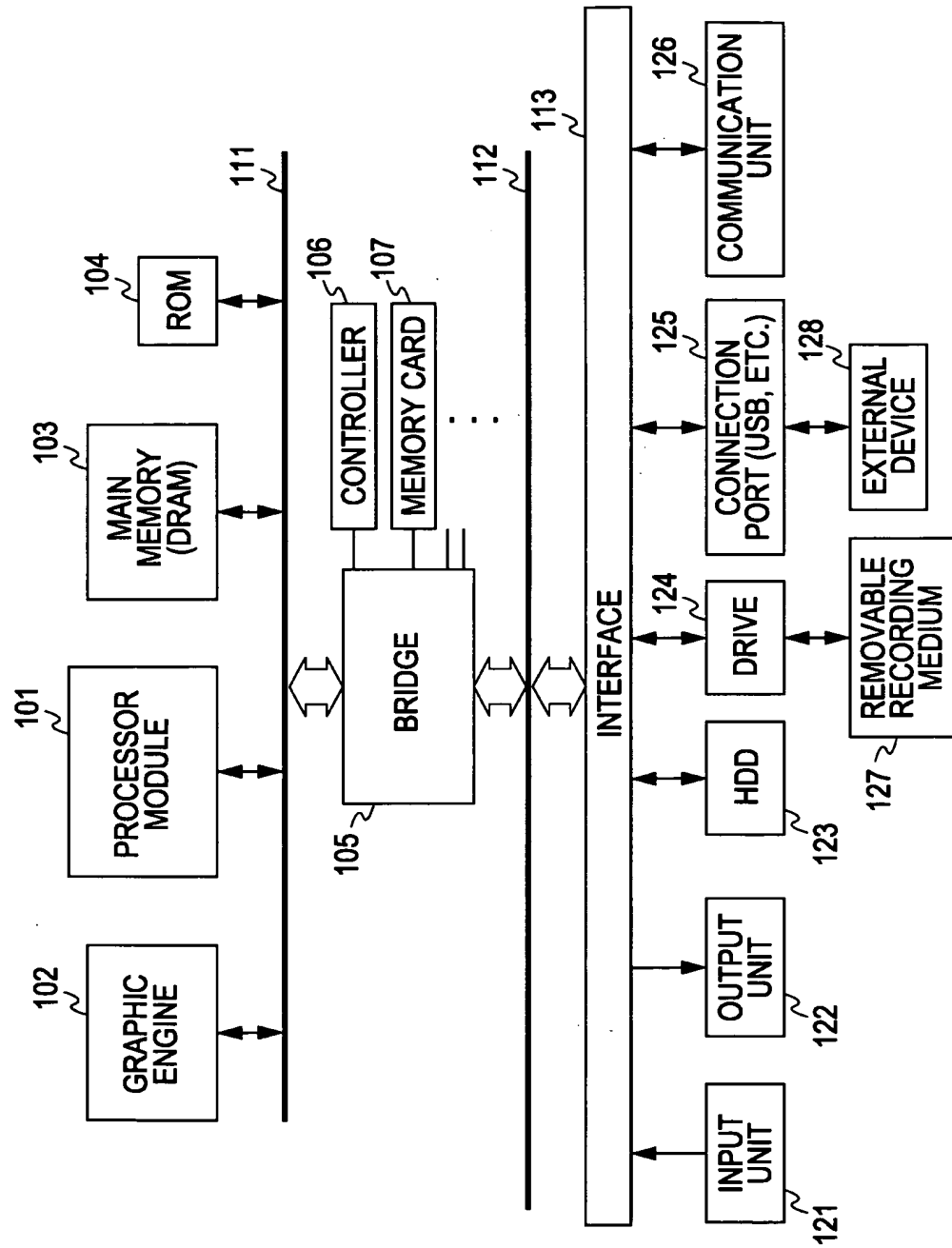


FIG. 2

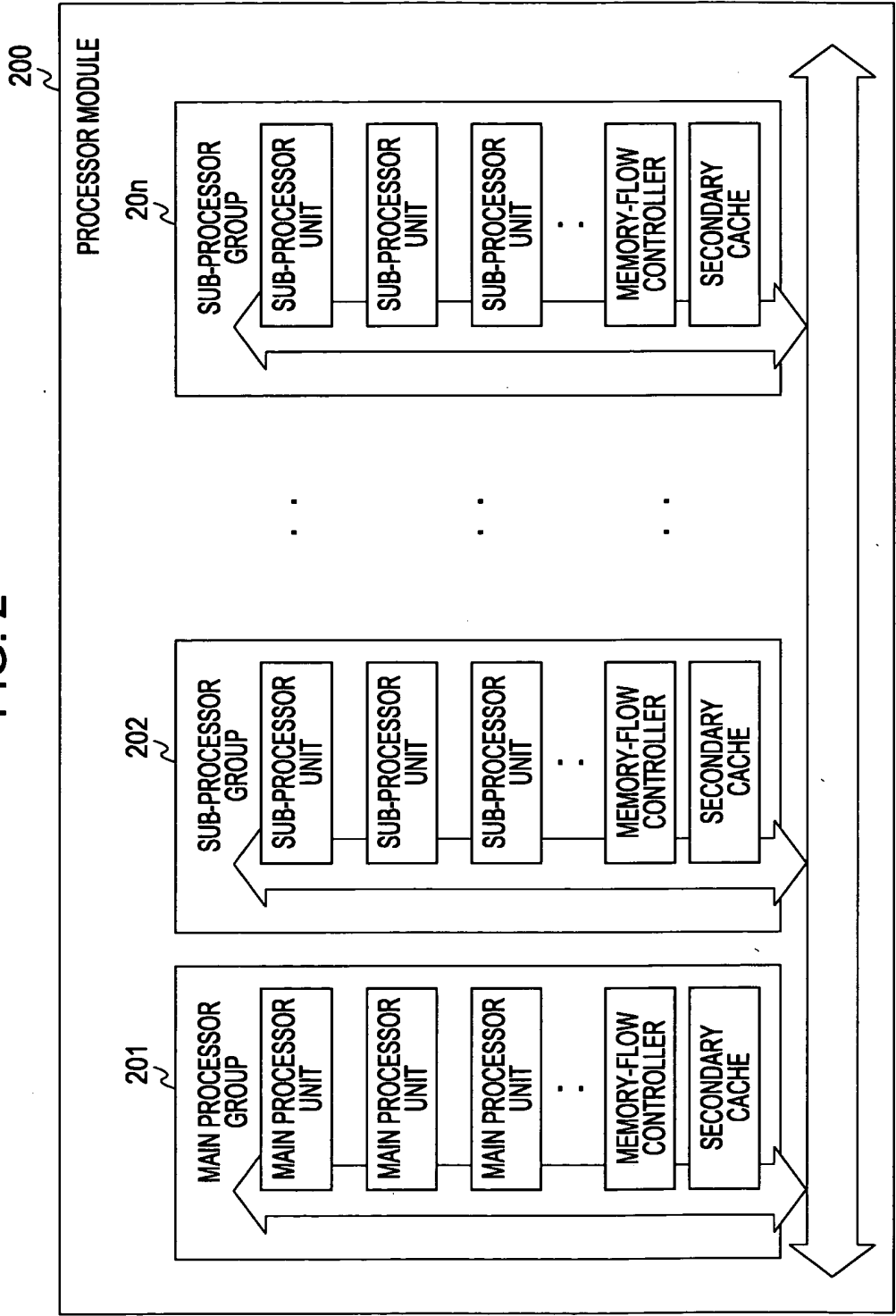


FIG. 3

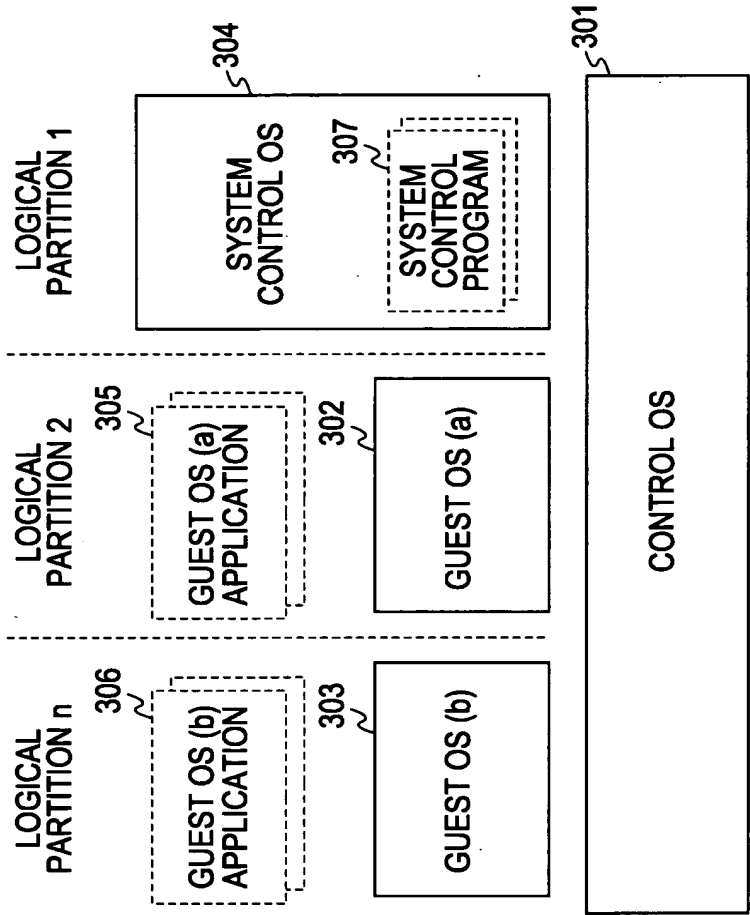


FIG. 4

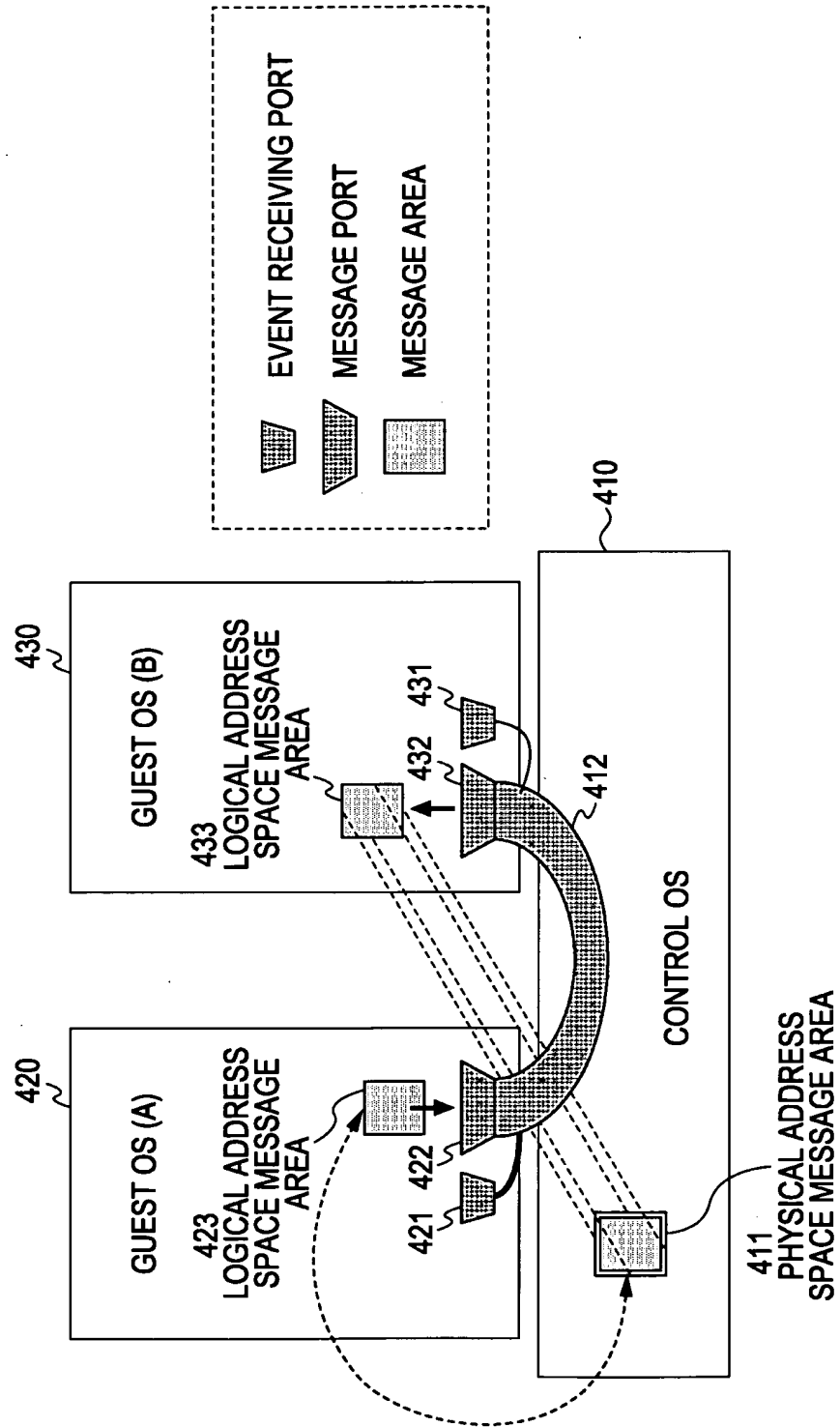


FIG. 5

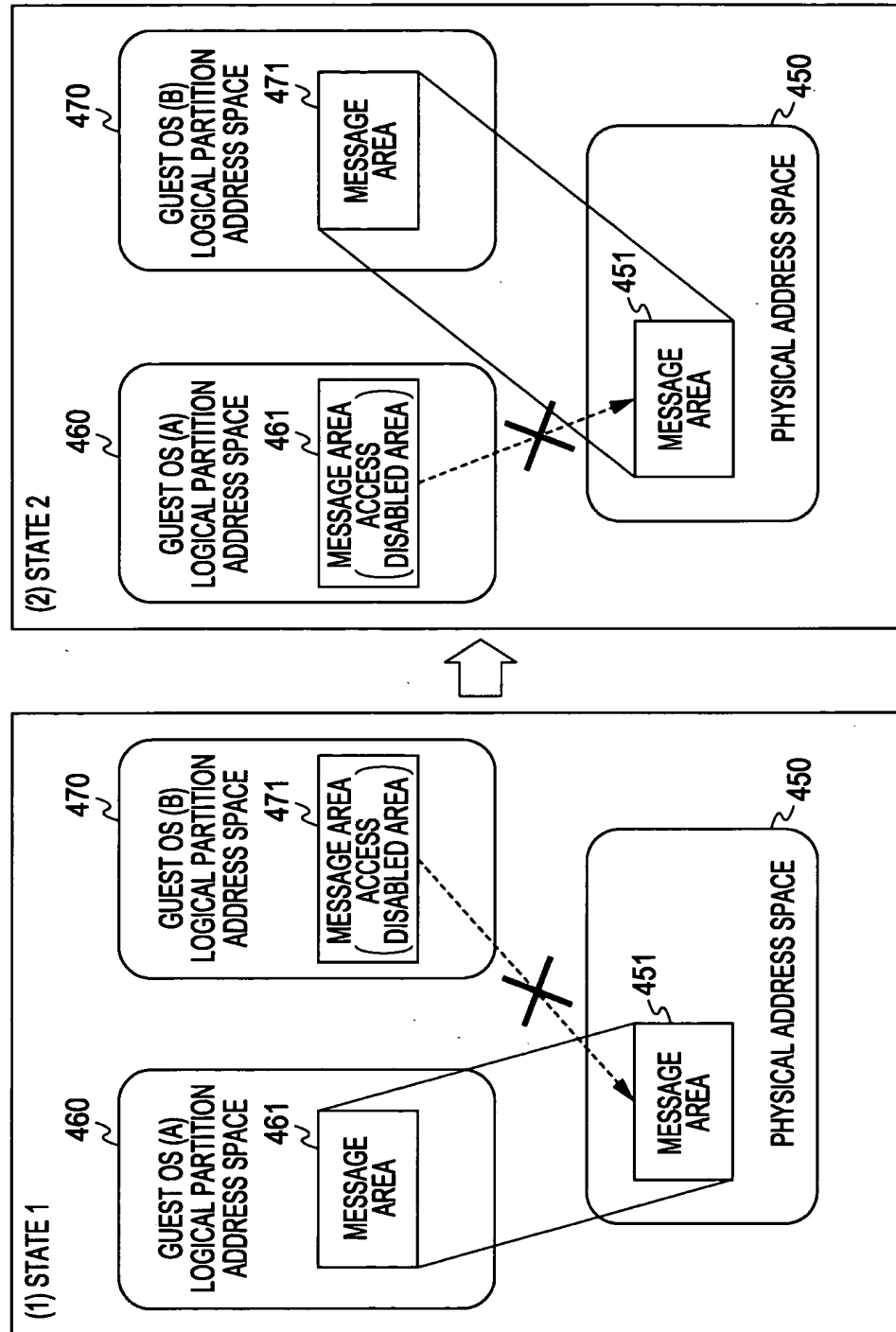


FIG. 6

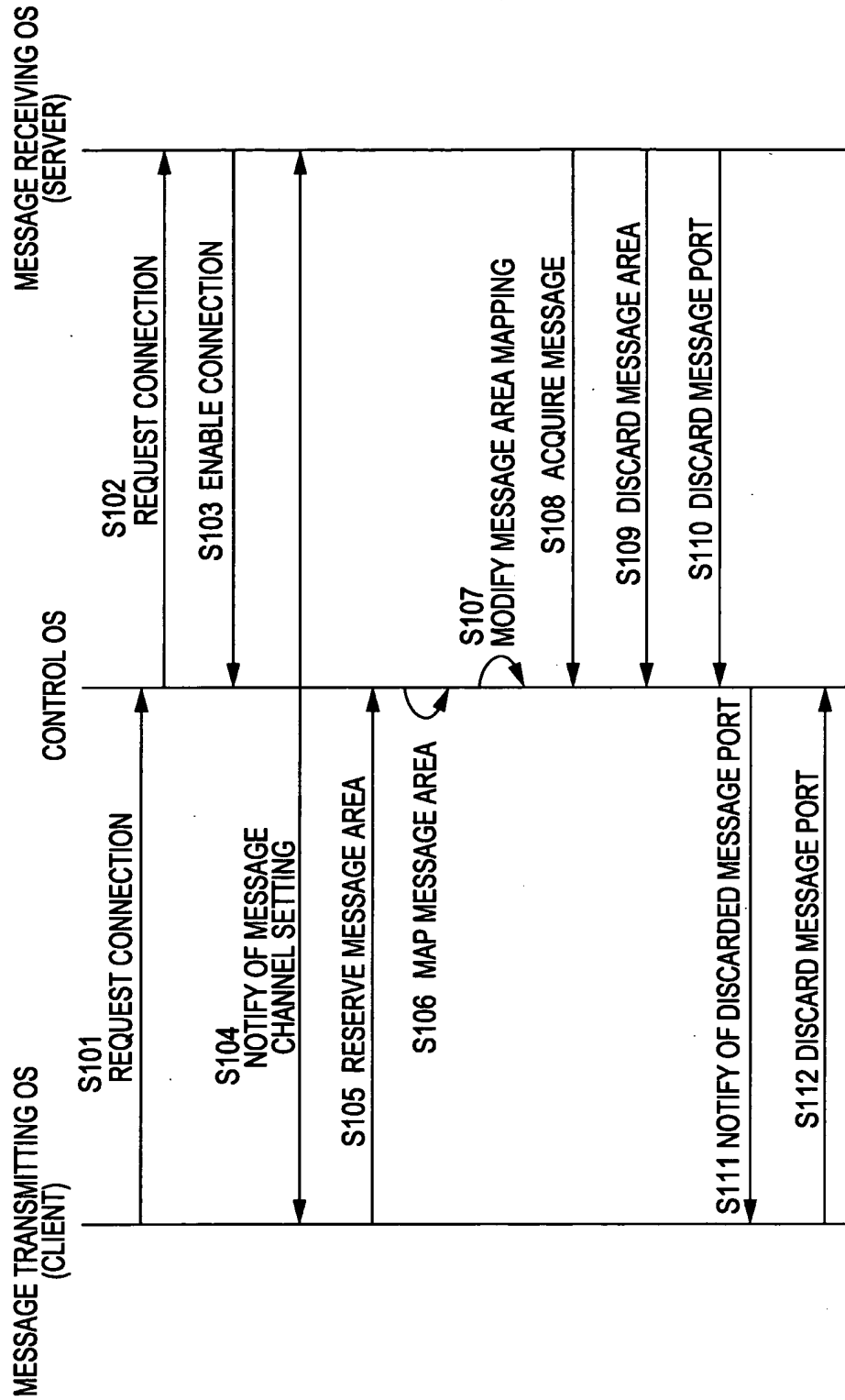


FIG. 7

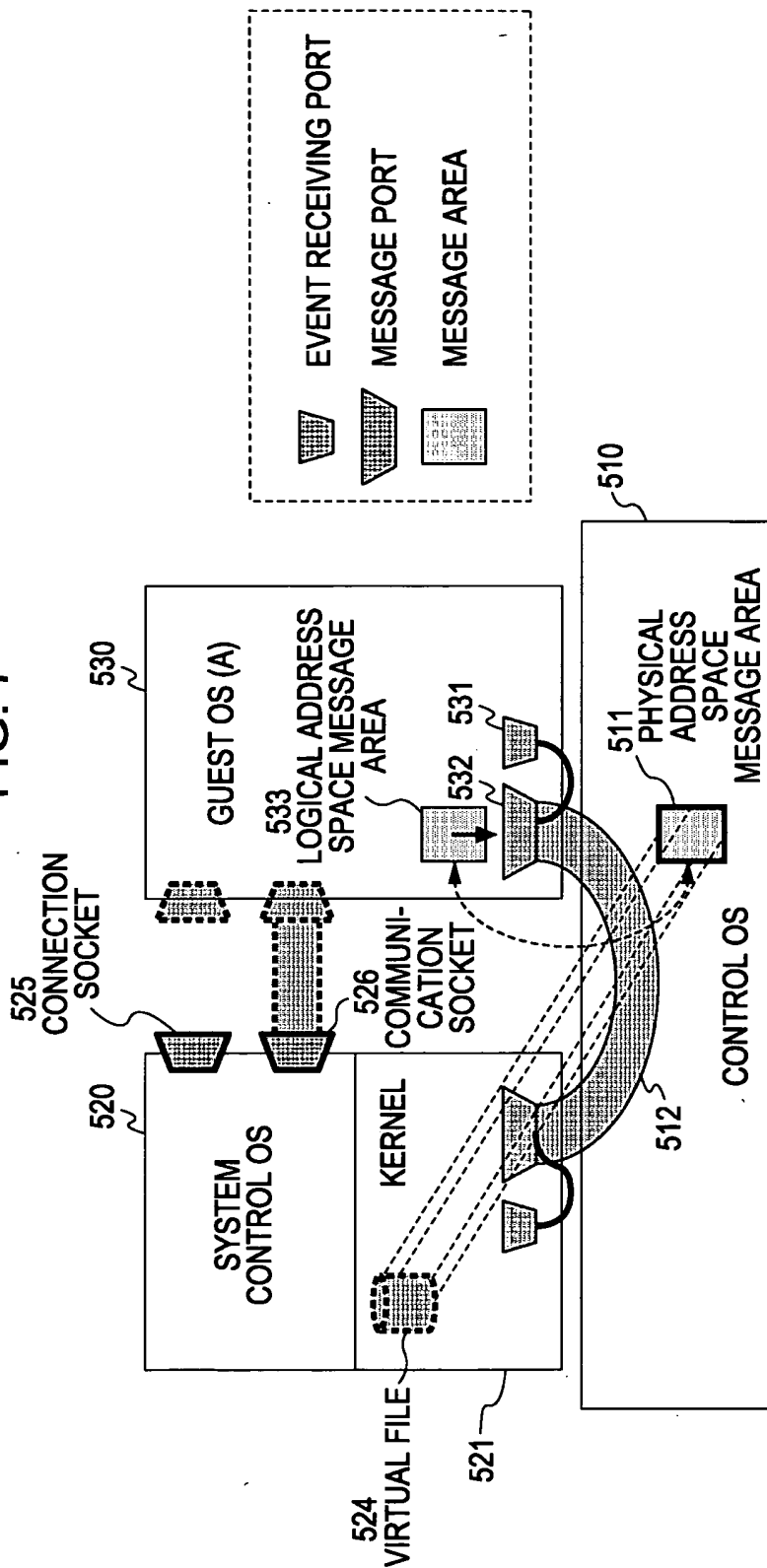


FIG. 8

	PROCESS OF SYSTEM CONTROL PROGRAM	PROCESS IN CORRESPONDING KERNEL (MESSAGE CHANNEL INTERFACE)
S201	socket = socket (...)	PRODUCE SOCKET AND PREPARE FOR RECEPTION OF CONNECTION REQUEST OF MESSAGE CHANNEL
S202	bind (socket, ...)	BIND SOCKET TO SERVICE ID FOR SYSTEM CONTROL PROGRAM TO WAIT FOR CONNECTION REQUEST
S203	listen (socket, ...)	ENABLE CONNECTION TO SPECIFIED SERVICE
S204	fd = accept (socket, ...)	CONNECT MESSAGE CHANNEL
S-A (a)	read (fd, ...)	ACQUIRE FILE NAME BY RECEIVING MESSAGE
S-B (a)	open/close/read/write message file	READ AND WRITE CONTENT OF MESSAGE
S-C (a)	write (fd, ...)	TRANSFER SPECIFIED MESSAGE
S-D (a)	unlink () message	DISCARD RECEIVED MESSAGE
S-E	close (socket)	DELETE MESSAGE PORT AND DISCONNECT MESSAGE CHANNEL



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FIG. 9

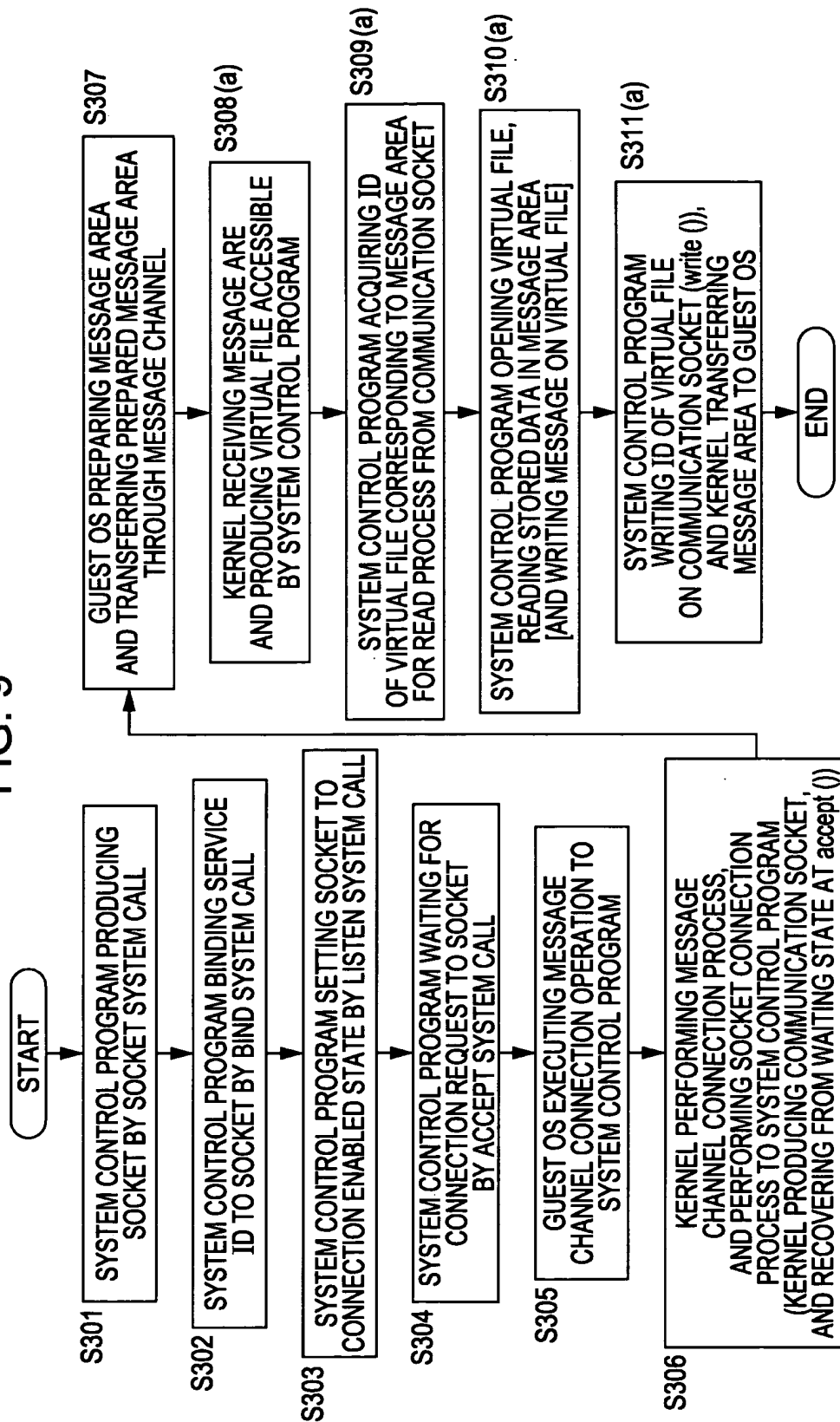


FIG. 10

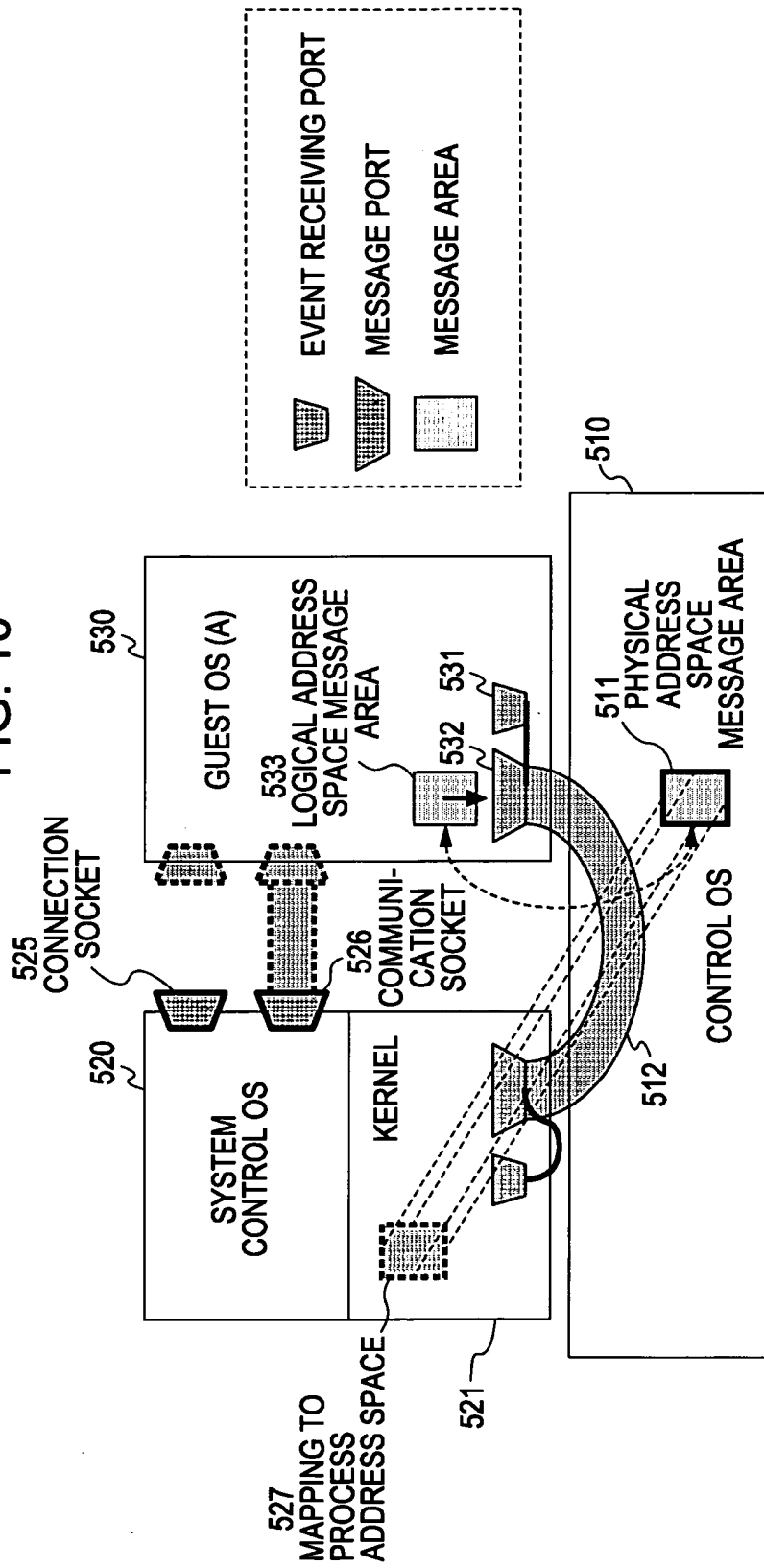


FIG. 11

	PROCESS OF SYSTEM CONTROL PROGRAM	PROCESS IN CORRESPONDING KERNEL (MESSAGE CHANNEL INTERFACE)
S201	socket = socket (...)	PRODUCE SOCKET AND PREPARE FOR RECEPTION OF CONNECTION REQUEST OF MESSAGE CHANNEL
S202	bind (socket, ...)	BIND SOCKET TO SERVICE ID FOR SYSTEM CONTROL PROGRAM TO WAIT FOR CONNECTION REQUEST
S203	listen (socket, ...)	ENABLE CONNECTION TO SPECIFIED SERVICE
S204	fd = accept (socket, ...)	CONNECT MESSAGE CHANNEL
S-A (b)	read (fd, ...)	ACQUIRE ADDRESS (MAPPED IN PROCESS ADDRESS SPACE) BY RECEIVING MESSAGE
S-B (b)	access to message	READ AND WRITE DIRECTLY CONTENT OF MESSAGE
S-C (b)	write (fd, ...)	TRANSFER SPECIFIED MESSAGE
S-D (b)	open message area	RELEASE MAPPING OF PROCESS TO ADDRESS SPACE
S-E	close (socket)	DELETE MESSAGE PORT AND DISCONNECT MESSAGE CHANNEL

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FIG. 12

